

CS-02-073



October 6, 2003

To: Commissioner for Patents  
P.O.Box 1450  
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572  
28 Davis Avenue  
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/616,268 07/09/03

Marvin Lo

ALUMINUM CAP WITH ELECTROLESS  
NICKEL/IMMERSION GOLD

Grp. Art Unit:

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

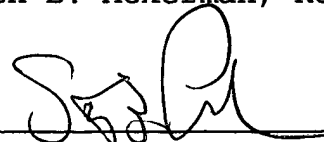
The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as first class  
mail in an envelope addressed to: Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450, on October 10, 2003.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 10/10/03

CS-02-073

U.S. Patent 6,452,270 to Huang, "Semiconductor Device Having Bump Electrode," describes increased adhesion between the UBM and passivation by using a Ti UBM with a closed-loop shape.

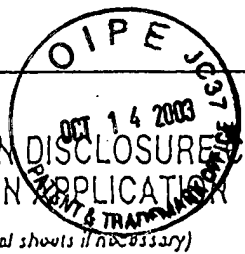
U.S. Patent 6,521,996 to Seshan, "Ball Limiting Metallurgy for Input/Outputs and Methods of Fabrication," describes a lower adhesion layer that provides good adhesion to the passivation layer.

U.S. Patent 6,426,281 to Lin et al., "Method to Form Bump in Bumping Technology," describes a passivation layer that increases the adhesion to the UBM.

Sincerely,

A handwritten signature in black ink, appearing to be 'SBA', written over the printed name.

Stephen B. Ackerman,  
Reg. No. 37761



Form PTO-1449	Doc No. (Number of Copies) <b>CS-02-073</b>	Application Number <b>10/616,268</b>
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Applicant <b>Marvin Lo</b>	
	Filing Date <b>07/09/03</b>	Group Art Unit

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	NUM. DATE IF APPROPRIATE
	6452270	9/17/02	Huang	257	738	1/19/01
	6521996	2/18/03	Seshan	257	737	6/30/00
	6426281	7/30/02	Lin et al.	438	612	1/16/01

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Portion of Pages, Etc.)


EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant